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L# ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN

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TI Fire-fighting aqueous emulsions consisting of water-insoluble fluorinated copolymers, ***surfactants***, fluorinated ***surfactants***, and water-miscible solvents

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PA Elf Atochem S.A., Fr.

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PI EP 765676	A1	19970402	EP 1996-401822	19960826
R: BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE				
FR 2739295	A1	19970404	FR 1995-11385	19950928
JP 09124884	A2	19970513	JP 1996-244969	19960917
AU 9665863	A1	19970410	AU 1996-65863	19960926
CA 2186773	AA	19970329	CA 1996-2186773	19960927

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AB Fire-fighting emulsions consist of aq. dispersions contg.: (1) 0.5-10 wt.% of a water-insol. fluorinated copolymer prep'd. from a monomer contg. a perfluorinated chain, a monomer contg. an ionic or ionizable chain, and/or a monomer contg. a nonionic chain, (2) 1-20 wt.% of a C5-18-branched or linear alkane ***surfactant***, (3) 0.5-10 wt.% of a fluorinated ***surfactant*** which, when present in aq. soln. at 1 g/L concn., gives rise to a surface tension at 20.degree. of 25 mN/m, and (4) 5-50 wt.% of a water-miscible solvent. The fluorinated copolymer is of general formula $-[M1]_x[M2]_y[M3]_z$, in which M1 is a C5-20- ***perfluoroalkyl*** acrylate or methacrylate; M2 is an acrylic, methacrylic, or vinylic monomer with an ionizable or hydrophilic group; M3 is an acrylic, methacrylic, or vinylic monomer with a nonionic (esp. hydrophobic) group; and $x = 50-95$, $y = 1-25$, and $z = 0-10$ (with an M1-M2 molar ratio of 1-10:1). A no. of ***surfactants*** are possible for the formulation, including ***betaines***, N,N-bis(2-carboxyethyl)amines, 2-alkyl(1-hydroxyethyl)imidazolines, quaternary ammonium chlorides, polyoxyalkylene monoethers, trialkylamine oxides, alkylbenzenesulfonic acids, etc.

IC ICM A62D001-00

DT Patent

LA French

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